

## Special Issue

# Electrochemical Sensors and Biosensors for Rapid Trace Analysis of Pollutants and Contaminants

### Message from the Guest Editors

This Special Issue focuses on trace analysis of pollutants and contaminants such as heavy metals, pesticides, and pharmaceuticals by using novel mercury-free electrode materials. Characterization of mercury-free electrode materials by using ASV techniques in combination with square-wave (SW) and differential pulse (DP) excitation stripping signals will be of high interest although other electrochemical techniques not involving a preconcentration step are equally welcome. Articles presenting working electrode characterization by electrochemical impedance spectroscopy (EIS) and surface analytical techniques (e.g. AFM, XPS, and ToF-SIMS) will also be considered for publication. The combination of electrochemical analysis with real sample preparation methodology is highly encouraged, nevertheless, review articles providing information on state of the art developments of the proposed scientific fields will likewise be accepted. For more information, please click: [mdpi.com/si/52146](https://mdpi.com/si/52146).

---

### Guest Editors

Prof. Dr. Matjaž Finšgar

Faculty of Chemistry and Chemical Engineering, University of Maribor, Smetanova ulica 17, 2000 Maribor, Slovenia

Dr. Tinkara Mastnak

Laboratory for Analytical Chemistry and Industrial Analysis, Faculty of Chemistry and Chemical Technology, University of Maribor, 2000 Maribor, Slovenia

---

### Deadline for manuscript submissions

closed (20 December 2022)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 9.4  
Indexed in PubMed



[mdpi.com/si/52146](https://mdpi.com/si/52146)

*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)





# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 9.4  
Indexed in PubMed



[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)



## About the Journal

### Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

---

### Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro  
Department of Electrical and Information Engineering, Politecnico di  
Bari, Via Orabona 4, 70126 Bari, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

#### Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)